Water Ponding with The Edge™ Vent is a NON-ISSUE

The EDGE™ vent
SHINGLE-OVER INTAKE VENT

On the shallowest possible roof pitch on which The Edge Vent can be installed – a 3/12 roof pitch – the amount of water it allows to pool or pond is 1/3 of an ounce in a slight rainfall (a drizzle). **It's only 1/4 of an ounce in a downpour.** Testing conducted at PRI Construction Materials Technologies confirmed that the curved design of Air Vent's shingle-over roof-top intake vent does not contribute to developing standing water on the roof. This simulation should increase the confidence of roofing contractors considering The Edge Vent for intake ventilation solutions.

TEST SET-UP

- A section of The Edge Vent was installed on a roof deck with a 3/12 pitch. *NOTE:* A 3/12 roof pitch is the minimum roof pitch requirement for Edge Vent installations. It's also a roof pitch that creates the shallowest transition between the shingles above where The Edge Vent is installed.
- To simulate rainfall a water spray system with the use of a spray tube was installed. It was constructed with 3/32-inch diameter holes drilled 1/2-inch on center along the length of the tube. The tube was positioned two shingle courses above the transition point at The Edge Vent (the point where the vent's curve occurs).
- Both low-flow (a drizzle) and high-flow (a downpour) conditions were examined to simulate different amounts of rainfall.

TEST RESULTS

LOW-FLOW RATE OF WATER (A DRIZZLE) *on a 3/12 Roof Pitch*	HIGH-FLOW RATE OF WATER (A DOWNPOUR) *on a 3/12 Roof Pitch*
Amount of Water Ponding Observed: 1/3 of an ounce distributed across a 1-foot section of The Edge Vent	**Amount of Water Ponding Observed: 1/4 of an ounce** distributed across a 1-foot section of The Edge Vent

The small amount of water that may pond on The Edge Vent does not simply sit there. Wind helps evaporate it.

Bottom Line: Water Ponding is a Non-Issue

Take 1/3 of an ounce of water and distribute it over a 1-foot section of The Edge Vent. That's the amount of water that pools or ponds on the vent when it's slightly raining/drizzling. It's even less when it's a downpour. [1]


The Edge Vent with water spray tube across length of vent.


Side view of The Edge Vent during low-flow rate of water.


Side view of The Edge Vent during high-flow rate of water.

To simulate rainfall a water spray system was positioned two shingle courses above the transition point at The Edge Vent (the point where the vent's curve occurs). After testing both low-flow and high-flow rates of water, the amount of water ponding was 1/3 of an ounce or less.

[1] Visit *www.airvent.com* to read the complete third-party test report.


1/3 of 1 ounce is equal to 2 teaspoons.

AIR VENT INC.®

INSTALLATION INSTRUCTIONS: CONFIRM 3/12 ROOF PITCH FOR PROPER WATER SHEDDING

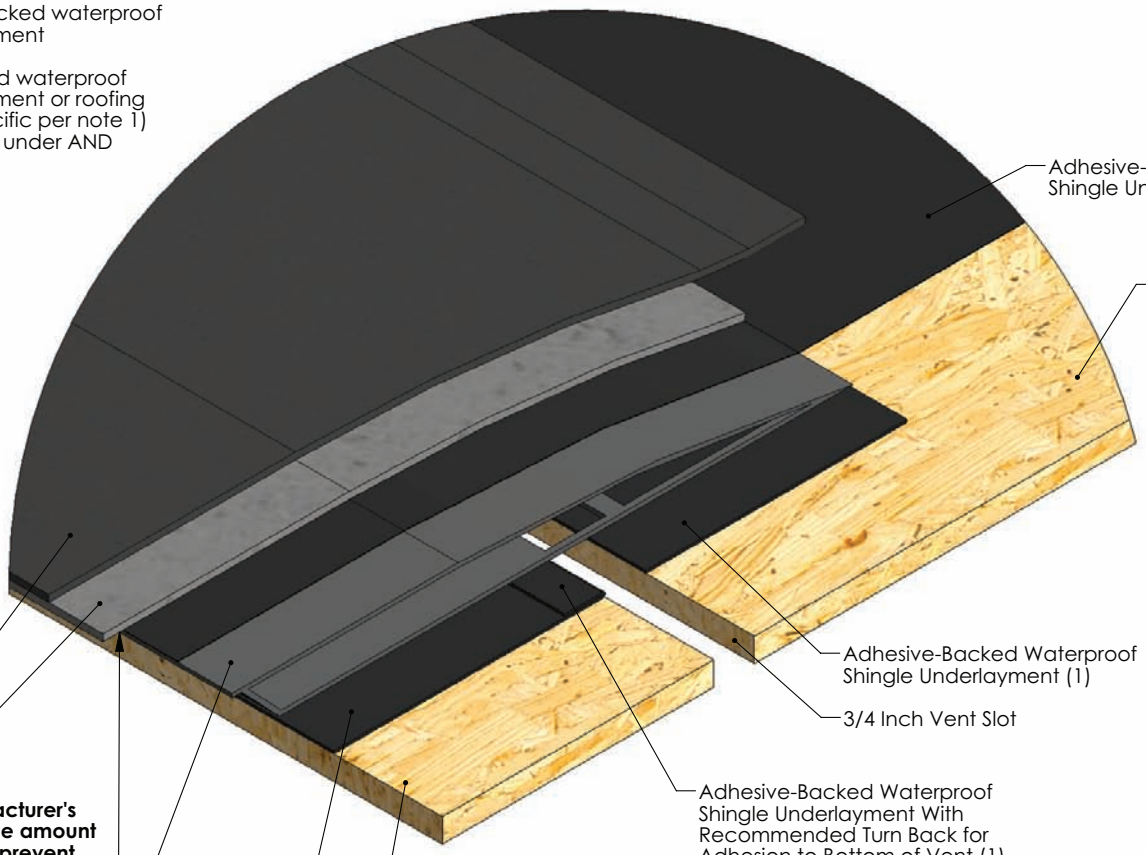
The successful results of this water ponding test confirm the importance of following Air Vent's installation instructions that accompany the product and can also be found online. Of particular importance with regard to proper water shedding is to ensure the roof pitch is at least 3/12. At 3/12 pitch the angle of The Edge Vent will be level with the ground. Any water running down the roof plane will overcome this as the pitch immediately increases back to the original roof pitch 6 inches away from this juncture. The Edge Vent will be level with the ground at only one juncture point on the entire roof.

TheEDGEvent™
SHINGLE-OVER INTAKE VENT

Notes:

1.) In warm climates, 15 or 30 pound roofing felt may be substituted for the adhesive-backed waterproof shingle underlayment

2.) Adhesive-backed waterproof shingle underlayment or roofing felt (climate specific per note 1) must be installed under AND over the vent



PRODUCTS PROUDLY MADE IN AMERICA

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